

a We Claim
~~Patent claims~~

1. A method of handling telephone signals supplied by an analog telephone set and data supplied by a data terminal in the subscriber line circuit of a digital telephone switching system which is used at least in subregions for a data transmission, to which circuit the telephone set is connected directly and the data terminal is connected with a modem interposed via a common analog subscriber line, characterized in that, during the required analog/digital conversion, at least the data supplied by the data terminal (PCa, PCb) are subjected to a sampling operation at a sampling rate which lies above the sampling rate required for telephone information and/or the sampling values representing data supplied by the data terminal undergo a coding operation according to a linear characteristic, and in that the data originating from the data terminal and handled in such a way are fed directly to a data transmission network (DN).

2. The method as claimed in claim 1, characterized in that, for the transmission on the subscriber line (TL), the data signals supplied by the data terminals (PCa, PCb) are modulated onto a carrier signal, the frequency of which lies above the frequency band authorized for the transmission of telephone signals.

3. A subscriber line circuit for handling telephone signals supplied by an analog telephone set and data supplied by a data terminal in the subscriber line circuit of a digital telephone switching system which is used at least in subregions for a data transmission, to which circuit the telephone set is connected directly and the data terminal is connected with a modem interposed via a common analog subscriber line, characterized by an analog/digital converter with a high sampling rate, above that required for telephone information, to which converter both the telephone signals supplied by the telephone set (Tela, Telb) and the data signals supplied by the data terminal (PCa, PCb) are fed, and characterized by a digital signal processor (DSP), which reduces the digital signals emitted by the analog/digital converter, at least as long as they represent telephone signals, to the transmission bit rate intended for the transmission and which at the same time subjects the signals representing telephone signals to a coding operation according to a nonlinear characteristic.

4. The subscriber line circuit as claimed in claim 3, characterized in that it has a digital interface, via which the digital signals emitted by the digital signal processor, as long as they represent signals of the data terminal, are fed to a data network (DN) and digital signals coming from

there, intended for the data terminal (PCa, PCb), are fed to
the digital signal processor (DSP).

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